



Omni IIe Version 2.14 Firmware Release

ADD THIS DOCUMENT TO YOUR OMNI IIe OWNER'S MANUAL

Description

The Omni IIe Version 2.14 firmware adds the following new features:

- Support for Z-Wave technology
- OmniTouch and programming support for the HAI Hi-Fi Digital Whole Home Audio Distribution System

*The Omni IIe Version 2.13 firmware adds the following new features:

- CP-01 Control Panel Standard - Features for False Alarm Reduction
- Bypassed zones now trigger programs
- Cameras that are programmatically displayed on OmniTouch with video touchscreens now timeout after 10 minutes
- Cameras that are displayed on OmniTouch with video touchscreens now timeout when an entry delay starts

*The Omni IIe Version 2.12 firmware adds the following new features:

- Modified OmniTouch list box for control units

*See www.homeauto.com for comprehensive list of firmware updates and descriptions.

About Vizia RF Z-Wave

Z-Wave is a wireless network protocol used in a wide variety of home automation devices made by numerous manufacturers. In addition to supporting standard Z-Wave lighting devices and communicating thermostats, HAI has worked in partnership with Leviton to support the advanced features of Leviton's ViziaRF series of lighting control devices, including lighting scenes and two way communications.

Vizia RF Z-Wave Format

Vizia RF Z-Wave format is a defined structure for associating, programming, and operating all the Vizia RF and Z-Wave lighting devices in your home.

Omni Iie groups devices by "House Code", which consists of 16 consecutive unit numbers, starting at Unit 1. Each "House Code" can be configured to a different lighting protocol format such as: Standard X-10, Extended X-10, Lightolier Compose, UPB (open UPB format where you can use the programming capability in the Omni Iie controller to communicate with the UPB network), Lutron RadioRA, HAI Lighting Control (HLC), Centralite, or Vizia RF Z-Wave.

Each "House Code" that is configured to use the Vizia RF Z-Wave format consists of 2 rooms with up to 8 Vizia RF and/or Z-Wave devices in each room. Omni Iie supports up to 8 rooms (total of 64 Vizia RF Z-Wave lighting devices). Each Vizia RF Z-Wave device has its own Node ID (1-232).

About Rooms

Each "room" of Vizia RF Z-Wave lighting consists of 8 consecutive unit numbers, starting at Unit 1 (i.e. Room 1 = Units 1-8, Room 2 = Units 9-16, Room 3 = Units 17-24, etc.). Each room can consist of a maximum of 8 Vizia RF and/or Z-Wave devices, configured as follows:

- Up to 7 HAI Vizia RF or Z-Wave lighting devices (for controlling up to 7 lighting loads in a room or area)
- 1 or more push button controllers

The first unit number in each room (i.e. 1, 9, 17, 25, etc.) is reserved for controlling the room. The name for this unit should reflect the room name (e.g. Kitchen, Great Room, Theater, etc.). Vizia RF or Z-Wave lighting devices cannot be associated with these unit numbers.

If one or more push button controllers are used, the first push button controller should be set to the first unit number in the group (i.e. Unit 1); additional push button controllers can be used by setting each to any other unused unit number in the group (i.e. Units 2-8).

Using a console, touchscreen, or other interface to Omni Iie, the room can be turned off (all loads in the group are turned off), turned on (all loads in the group are turned on), or set to one of 4 lighting scenes (A-D).

Vizia RF Z-Wave Setup

To configure House Codes to the Vizia RF Z-Wave Format, from the Set Up menu, press the 6 (MISC) key.

House Codes 1-4 Format

House Codes 1-4 can be configured to use the Standard (Preset Dim Command), Extended Code (Level Command), Lightolier's Compose Mode, UPB (open transmission format), Lutron's RadioRA transmission format, HAI Lighting (HLC) format, Centralite format, and Vizia RF Z-Wave format.

```
HC 1 FORMAT:          1
5=HAI Lighting   #=CHNG ↓
```

To change format to Vizia RF Z-Wave for House Code 1, press the '#' key, and then use the arrow keys to scroll through the list of formats until "VIZIA RF Z-WAVE" is displayed. Press the '#' key to select. Press the down-arrow key to change format for the next House Code.

| FORMAT | NUMBER | DESCRIPTION |
|-----------------|--------|---|
| STANDARD | 0 | Preset Dim Command (X-10, X-10 Pro, Leviton, PCS, etc.) |
| EXTENDED | 1 | Extended Code Level Command (Leviton) |
| COMPOSE | 2 | Compose Mode (Lightolier's Compose) |
| UPB | 3 | Universal Powerline Bus (open format) |
| RADIO RA | 4 | Lutron RadioRA |
| HAI LIGHTING | 5 | HAI Lighting Control (HLC) |
| CENTRALITE | 6 | Centralite Lighting |
| VIZIA RF Z-WAVE | 7 | Vizia RF Z-Wave |

The default setting for HC 1-4 Format is 1.

House Codes 1-4 All Off

This feature allows you to choose if HC 1-4 will respond to the "All Off" command.

```

HC 1 ALL OFF:           1
0=NO 1=YES             ↓
  
```

The default setting for *HC 1-4 All Off* is Yes.

Note: When configured, the House Code will affect 2 rooms of Vizia RF Z-Wave lighting (i.e. HC 1 ALL OFF affects Room 1 and 2).

House Codes 1-4 All On

This feature allows you to choose if HC 1-4 will respond to the "All On" command.

```

HC 1 ALL ON:           1
0=NO 1=YES             ↓
  
```

The default setting for *HC 1-4 All On* is Yes.

Note: When configured, the House Code will affect 2 rooms of Vizia RF Z-Wave lighting (i.e. HC 1 ALL ON affects Room 1 and 2).

Controlling Vizia RF Z-Wave from an Omni Console

It is imperative that each unit be named. If a unit is not named, it will not show up in the list of rooms and loads that are able to be controlled. The only exception is for additional push button controllers. If you have assigned a Node ID to a Unit, but do not name it, the HAI Omni will interpret that as a push button controller, so Z-Wave messages from that push button controller will not be ignored.

Use the Control menu to control rooms of lighting and individual lighting loads. To enter the Control menu, from the top-level display or from the main menu, press the 1 (CTRL) key on the console keypad.

Omni IIe will automatically display the first named unit. The first unit in each room (i.e. Unit 1, 9, 17, 25, etc.) is reserved for controlling the room, thus has a different set of controls from the other units in the room (i.e. 2-8, 10-16, 18-24, 26-32, etc.).

Controlling a Room of Vizia RF Z-Wave Lighting

To control a room of Vizia RF Z-Wave lighting, select the room from the list of units, and then press the '#' key.

```
Living Room
0=OFF 1=ON 2-5=A-D      ↓
```

```
Living Room
6=SET                    #=STA↑
```

- Press 0 (OFF) to turn the selected room off (all lighting loads in the room are turned off)
- Press 1 (ON) to turn the selected room on (all lighting loads in the room are turned on)
- Press 2 (A) to set all of the lighting loads in the selected room to their preset levels for Scene A
- Press 3 (B) to set all of the lighting loads in the selected room to their preset levels for Scene B
- Press 4 (C) to set all of the lighting loads in the selected room to their preset levels for Scene C
- Press 5 (D) to set all of the lighting loads in the selected room to their preset levels for Scene D
- 6 (SET) is not used with Vizia RF Z-Wave lighting
- Press # (STA) to view the current status of the room

Controlling Individual Lighting Loads in an Vizia RF Z-Wave Room

To control individual lighting loads in a room, use the down arrow key to scroll through the list of units. When the unit is displayed, press the '#' key. For Vizia RF Z-Wave lighting loads, the console will display:

```
LR Sconce
0=OFF 1=ON 2=DIM 3=BRT ↓
```

```
LR Sconce
4=LVL 5=RMP 9=TIM #=STA↑
```

- Press 0 (OFF) to turn the selected lighting load off
- Press 1 (ON) to turn the selected lighting load on
- Press 2 (DIM) to dim the selected unit (1-9 steps, each step is 10% from its current level)
- Press 3 (BRT) to brighten the selected unit (1-9 steps, each step is 10% from its current level)
- Press 4 (LVL) to set the desired lighting level of the selected unit (0%-100%)
- 5 (RMP) is not used with Vizia RF Z-Wave lighting
- Press 9 (TIM) to time the selected unit (On, Off, Dim, Brighten)
 - Timed commands may be from 1-99 seconds, 1-99 minutes or 1-18 hours
- Press # (STA) to see the status of the device.

Note: When a Z-Wave signal is received over the network, Omni IIe will automatically update the status of the device.

Controlling the HAI Hi-Fi Digital Whole Home Audio Distribution System

Once configured by your installer, from any OmniTouch touchscreen, you can control on/off, volume, and muting of any Audio Zone on the HAI Hi-Fi system. Furthermore, you can select the Audio Source (up to 6 Audio Sources) and Audio Zones (up to 8 Audio Zones) on the HAI Hi-Fi audio distribution system.

To control the HAI Hi-Fi system from an OmniTouch touchscreen, press the “Audio” icon on the Home page. By default, the interface control Audio Zone 1 on the HAI Hi-Fi system. The Audio Zone can be changed using the “Zone” button on the touchscreen interface. Once the Audio Zone has been changed, it becomes the new default Audio Zone for that OmniTouch touchscreen. If desired, each OmniTouch touchscreen can be configured to default to a different Audio Zone.

The top line on the display will show the Audio Zone name (e.g. Living Room), followed by: ON (the Audio Zone is currently on), OFF (the Audio Zone is currently off), or MUTE (the Audio System is currently muted). Justified to the right of the display on the top line is the current volume level for the Audio Zone, displayed as a percentage (0%-100%).

The second line on the display will show the Audio Source name (e.g. AM/FM TUNER, CD PLAYER, MP3 PLAYER, etc.).

Once completed, press the Exit icon to return to OmniTouch Home page.

Changing Audio Source

To select a new Audio Source for the current Audio Zone, press the “Source” button on the touchscreen interface. Select the desired Audio Source from the Source list box.

Changing Audio Zone

To select a new Audio Zone, press the “Zone” button on the touchscreen interface. Select the desired Audio Zone from the Zone list box. Once selected, you will be able to control that Audio Zone from the touchscreen interface. The selected Audio Zone will be the default for that OmniTouch touchscreen until a different Audio Zone is selected.

Configuring Source and Zone Names

The names that are displayed on the OmniTouch touchscreen interface for Audio Source and Audio Zone must be configured in the Omni IIe controller. A name must be given to each Audio Source and Audio Zone to make it available in the respective list box when changing the Audio Source or Audio Zone.

When your Omni IIe is configured to control HAI Hi-Fi, certain unit numbers (currently flag units) are allocated for Audio Source or Audio Zone names. This means that the allocated unit numbers will no longer be displayed in the unit list.

Unit numbers 113-118 are allocated for the Audio Source names. These names should match the names of each Audio Source in your audio distribution system. For example:

| Audio Distribution System | | HAI Omni IIe | |
|---------------------------|--------------|--------------|--------------|
| Source 1 | AM/FM Tuner | Unit 113 | AM/FM Tuner |
| Source 2 | XM Tuner | Unit 114 | XM Tuner |
| Source 3 | Home Theater | Unit 115 | Home Theater |
| Source 4 | CD Player | Unit 116 | CD Player |
| Source 5 | Satellite | Unit 117 | Satellite |

Unit numbers 121-128 are allocated for the Audio Zone names. These names should match the names of each Audio Zone in your audio distribution system. For example:

| Audio Distribution System | | HAI Omni IIe | |
|---------------------------|-----------------|--------------|--------------|
| Zone 1 | Living Room | Unit 121 | Living Room |
| Zone 2 | Den | Unit 122 | Den |
| Zone 3 | Kitchen | Unit 123 | Kitchen |
| Zone 4 | Patio | Unit 124 | Patio |
| Zone 5 | Master Bedroom | Unit 125 | Master BedRM |
| Zone 6 | Master Bathroom | Unit 126 | Master Bath |

Programming Audio Commands

Using HAI PC Access Software, you can create programs to control *Audio Zones*, *Volume*, *Audio Sources*, and simulate *Key Presses* on the audio system keypad or remote control.

- The *Audio Zone Command* allows you to create programs to select Off, On, Mute Off, and Mute On for individual Audio Zones or for All Audio Zones.
- The *Volume Command* allows you to create programs to set the volume from 0% to 100% for the specified Audio Zone.
- The *Audio Source Command* allows you to create programs to select an Audio Source for the specified Audio Zone.
- The *Key Press Command* allows you to create programs to simulate key presses as shown.

HAI Hi-Fi Key Press Commands

| HAI Hi-Fi Key Presses | | | | |
|-----------------------|--|--|--|--|
| Power | | | | |
| Volume up | | | | |
| Volume down | | | | |
| Mute | | | | |
| Source Step | | | | |

Note: The Volume up and Volume down will raise and lower the volume in the specified Audio Zone by 5%.

Example Programming of Audio Commands

You can create programs in your Omni IIe to customize your music experience. For example, you can create programs to play your favorite music when you return home and disarm your system.

When the security system is disarmed by Bob, execute the “Bob Is Home” macro:

```
WHEN Bob OFF: RUN Bob Is Home
```

When the “Bob Is Home” macro is executed, turn the Living Room Audio Zone on, set the volume of the Living Room Audio Zone to 50 and set the Living Room Audio Source to “Media Player”:

```
WHEN Bob Is Home: Living Room AUDIO ON (Audio Zone Command)
```

```
WHEN Bob Is Home: Living Room AUDIO VOLUME 50% (Volume Command)
```

```
WHEN Bob Is Home: Living Room AUDIO SOURCE Media Player (Audio Source Command)
```

You can also create programs which will allow the HAI UPB™ 6-Button Room Controller to control basic functions of the audio system in a room where an OmniTouch touchscreen is not installed.

Every time the “ON” button on the keypad is pressed, raise the volume in the Master Bathroom by 5%. Every time the “OFF” button on the keypad is pressed, lower the volume in the Master Bathroom by 5%.

```
WHEN Master Bath SW1 PRESSED: Master Bath AUDIO KEY PRESS VOLUME UP  
WHEN Master Bath SW2 PRESSED: Master Bath AUDIO KEY PRESS VOLUME DOWN
```

When the “A” button is pressed, turn the Mater Bathroom Audio Zone on.

```
WHEN Master Bath SW3 PRESSED: Master Bath AUDIO ON
```

When the “C” button is pressed, turn the Mater Bathroom Audio Zone off.

```
WHEN Master Bath SW5 PRESSED: Master Bath AUDIO OFF
```

Every time the “B” button is pressed, select the next available Audio Source.

```
WHEN Master Bath SW4 PRESSED: Master Bath AUDIO KEY PRESS SOURCE STEP
```

When the “D” button is pressed, mute the Mater Bathroom Audio Zone.

```
WHEN Master Bath SW6 PRESSED: Master Bath AUDIO KEY PRESS MUTE
```